

DRP Workshop III: Data and Data Sharing April 13, 2015



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DRP Workshop: Data and Data Sharing

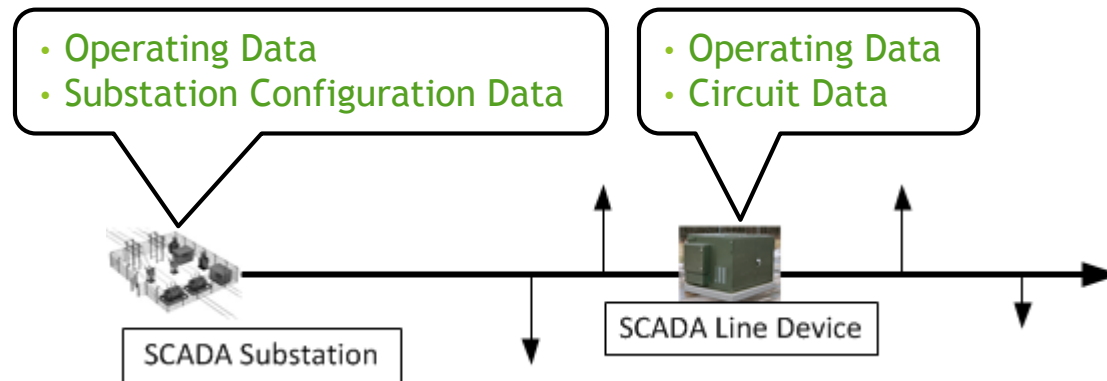
RAM Maps

RAM Maps

- ▶ Created in 2010 to give 3rd party developers a rough idea of available capacity
- ▶ Data is compiled from GIS
- ▶ Information based on loading, capacity, and interconnection methodology
- ▶ Maps updated periodically

Data - Types

- ▶ Both system and operating data are used for distribution planning
- ▶ SCADA or similar device required to retrieve operating data
- ▶ System data is retrieved from GIS or similar system



Data - What to share

- ▶ Results of Integration capacity analysis - shown on updated RAM map
- ▶ Load growth project plan - part of optimal locational benefits analysis (e.g., relevant circuit or substation load shape may also be included)

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Initiatives to Improve Access

Data - Increased Access and Transparency in DRPs

- ▶ The IOUs' Integrated Capacity Analyses will provide more detailed up-front location-specific data on locations where DERs may be deployed where there is additional capacity
- ▶ This additional transparency and data access will be in addition to existing interconnection screening tools and processes
- ▶ The IOUs' DRPs also propose to include publicly-available processes and methodologies that provide more granularity and insights into planning data

DRPs Will Apply CPUC Data Access Rules

- ▶ Apply existing CPUC and FERC rules for protecting confidential and sensitive data, including customer-specific data, critical infrastructure data, market-sensitive data and trade secrets
- ▶ Collaborate with stakeholders on methods to anonymize and/or aggregate DRP data to maximize useful access by DER developers and customers
- ▶ Include proposals for web-based, streamlined access to usable data, modeled on the IOUs' Energy Data Center web portals and provided that costs are recoverable

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DER to Utilities

Benefits to Data Sharing

- ▶ Distribution Planning
 - ▶ Maximize DER grid benefit during planning
 - ▶ Determine whether DERs may provide cost effective alternative to or better optimize future traditional capital expansion upgrades (wires, transformers, capacitors)
 - ▶ DRPs will inform customers and DER developers regarding areas where there is available capacity
 - ▶ Provide improved integration of resources between distribution and transmission

Benefits to Data Sharing

- ▶ Improve situational awareness
 - ▶ Optimize capacity utilization
 - ▶ Maintain proper voltage
 - ▶ Maximize benefit of DER output
 - ▶ Identify potential safety concerns